



# YDRO PROCESS® 12

## Technical Data Sheet

### *Dairy waste facultative*

#### Description

YDRO PROCESS® 12 is a product containing a specially formulated range of microorganisms capable of treating wastewater originating from the dairy and ice cream industry, dough, pastry and dietary supplement production facilities. The high performance anaerobic, facultative and aerobic selected microorganisms in conjunction with the contained minerals, micronutrients, vitamins and amino acids create ideal conditions for the degradation of the polluting parameters. It degrades organic compounds contained, breaks down fats, oils and grease and eliminates the production of H<sub>2</sub>S and odors without harming any facility or equipment. It is capable of operating at optimum efficiency in conditions with increased salinity or excessive lactose content.

#### Applications

Dairy and ice cream industry

Dough and pastry production facilities

#### Storage, Handling and Disposal

Please store product at room temperature, with low humidity and away from direct sunlight. Storing in high temperature or high humidity for extended periods will harm the product and affect its efficiency significantly.

Do not use on food surfaces, do not inhale possible dust, wash hands thoroughly after handling.

Dispose container according to local regulations.

#### Directions for use

This product must be applied after maturing for at least 12 hours, preferably in non-chlorinated water. The maturation process, the exact dosing points and the exact daily dosage are decided according to the daily volume and characteristics of the wastewater, the organic load and the overall polluting parameters, the available treatment facility and the effluent target parameters. The initial dosage is usually increased. The increased F.O.G. which is usually found in this kind of wastewater may increase the daily dosage of required microorganisms. Several days may be required in order to achieve complete success. Nutrient supplement might be required.

#### Physical properties

Colour .....	light brown
Appearance .....	powder
Odour .....	yeast-like
Relative density .....	0.60 – 0.65 gr/cm <sup>3</sup>
Bacterial cultures .....	<1 wt%
pH range .....	6.0 – 9.0
Temperature range .....	5°C – 60°C
Carrier content .....	>99 wt%
Solubility .....	soluble in water
Degradability .....	biodegradable
Shelf-life .....	3 months

#### Key Benefits – Results

- Reduces the production of excess sludge
- Liquefies fats, oils and grease (F.O.G.)
- Increases the degradation of organic content and prevents organic build-ups
- Decomposes lactose
- Prevents equipment fouling due to build-ups
- Reduces contaminants
- Eliminates odours and H<sub>2</sub>S production
- Balances and withstands low pH shocks
- Decomposes complex organic molecules
- Enhances overall biological operations
- Improves the treatment plant effluent
- Maintains optimum performance at lower temperature and high salinity conditions
- Reduces the added chemicals (polymer etc.)
- Reduces overall treatment cost
- Stabilizes organic load inconsistency
- It is a naturally occurring product, non-toxic, non-genetically modified and environmentally safe
- Does not harm equipment or tanks
- Easy activation and application

#### Available packaging

Bulk: 1kg, 2kg, 5kg, 10kg, 250kg